Step 1 - Scope of problem (5 minutes) :05pm	Step 2 - Assumptions (5 minutes) :10pm
 * specific feature(s)/product/service are we building? Why? * Users * How many? * How do they interface with the system? Web? API? Native? * How frequently do they access the system? * Is there an expectation of growth? How often (weeks, months)? * Peak usage hours? * Are there super users? Or celebrity users? Or tiers of users? * Any special requirements? * technology stack? * Can we leverage any specific infrastructure? E.g., CDN? * Are there any constraints/key tradeoffs?: Technology/Servers? Budget? Restrictions? 	* Gather maximums * Caching/data freshness requirements? * Any "deal breakers"? * What's the optimal access and organisation of data? * Availability/reliability - up time?
Step 3 - Draw Components (10 minutes) :20pm	Step 4 - identify key issues (5 mins) :25pm
 * Draw major components * Do back of envelope calculations * Check reliability * Identify future things - (out of scope) - like Al stuff * Get agreement before continuing 	* Bottlenecks: * Bandwidth, throughput, latency * Read/write/Synchronise operations * Tradeoffs? * single points of failure - Quality of service? Reliability/unreliability of clocks? * Rate limiting? * security issues? * Analytics? Privacy? * Agree: did we miss anything critical?
Step 5 - Redesign for key issues (15 mins) :40pm	Step 6 - Wrap up (5 mins) - :45pm
TOOLS	
 * Workers * Message queues * Database - relational or NoSQL/GraphDB * CDN * Other external services 	 * Horizontal (more servers!)/Vertical scaling (more CPU/memory) * Load balancer * Caches * Servers/shards * CAP: consistency <=vs=> availability <=vs=> partition tolerance